| | Application No. | Applicant(s) |
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| Notice of Allowability | 10/623,617 | FOUILLET ET AL. |
| | Examiner | Art Unit |
| | Brian R. Gordon | 1743 |
| The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31 | 6 (OR REMAINS) CLOSED in this) or other appropriate communicat RIGHTS. This application is subject | e correspondence address application. If not included tion will be mailed in due course. THIS |
| 1. This communication is responsive to <u>9-27-06</u> . | | |
| 2. The allowed claim(s) is/are <u>1-16</u> . | | |
| 3. Acknowledgment is made of a claim for foreign priority units a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). | e been received. e been received in Application No | · |
| * Certified copies not received: | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | oly complying with the requirements |
| 4. A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which give | nitted. Note the attached EXAMINI res reason(s) why the oath or decl | ER'S AMENDMENT or NOTICE OF aration is deficient. |
| 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. | | |
| (a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached | | |
| 1) 🗌 hereto or 2) 🗌 to Paper No./Mail Date | _• | |
| (b) ☐ including changes required by the attached Examiner Paper No./Mail Date | | • |
| Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in | | |
| DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT | osit of BIOLOGICAL MATERIA FOR THE DEPOSIT OF BIOLOG | L must be submitted. Note the ICAL MATERIAL. |
| | | |
| Attachment(s) | _ | |
| 1. ☐ Notice of References Cited (PTO-892) | 5. Notice of Informa | • • |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948) | 6. ☐ Interview Summa Paper No./Mail I | |
| Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date | 7. 🛭 Examiner's Amer | ndment/Comment |
| 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material Output Date | 8. Examiner's State | ment of Reasons for Allowance |
| | 9. | |
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EXAMINER'S AMENDMENT

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1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert M. Jackson on November 30, 2006.

The application has been amended as follows:

In the claims:

 A device for injection and mixing of droplets of respective first and second liquid reagents, comprising:

an analysis support including an electrically insulating layer;

a viscous liquid deposited on the electrically insulating layer, wherein said viscous liquid is immiscible with said reagent droplets within said viscous liquid;

a droplet of said first reagent deposited on said electrically insulating layer within the viscous liquid;

an injector including said second liquid reagent and an outlet orifice, said injector forming a droplet of said second liquid reagent above the said droplet of first reagent;

a first electrode arranged underneath said droplet of first reagent and said electrically insulating layer;

a second electrode arranged near to the outlet orifice of the injector; and

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a controller for applying and controlling a voltage applied between said first and second electrodes, said voltage generating electrostatic forces which cause a formation of said droplets of respective first and second reagents, before said droplets come into contact and mix.

16. A process for mixing of droplets of respective first and second liquid reagents, comprising:

depositing a viscous liquid on an electrically insulating layer of an analysis support, wherein said viscous liquid is immiscible with said reagent droplets within said viscous liquid;

depositing a droplet of said first reagent on said electrically insulating layer within the viscous liquid;

forming a droplet of said second liquid reagent above the said droplet of first reagent, said droplet being formed via an outlet orifice of an injector;

arranging a first electrode underneath said droplet of first reagent and said electrically insulating layer;

arranging a second electrode near to said outlet orifice; and applying and controlling a voltage between said first and second electrodes, said voltage generating electrostatic forces which cause a deformation of said droplets of respective first and second reagents before said droplets come into contact and mix.

Allowable Subject Matter

2. Claims 1-16 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian R. Gordon whose telephone number is 571-272-1258. The examiner can normally be reached on M-F, with 2nd and 4th F off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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BRIAN R. GORDON PRIMARY EXAMINER

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